

Bellwork: 2/22/13

Use synthetic division and the given factor to  
completely factor the given polynomial:

$$2x^3 - 3x^2 - 32x + 48 \quad , \quad (x-4)$$

$$\begin{array}{r|rrrr} 4 & 2 & -3 & -32 & 48 \\ & +\downarrow & 8 & 20 & -48 \\ \hline & 2 & 5 & -12 & 0 \end{array}$$

$\rightarrow 2x^2 + 5x - 12$   
 $(x-4)(2x-3)(x+4)$

Page 1

Quiz  
Monday  
Feb. 25<sup>th</sup>

Page 2

